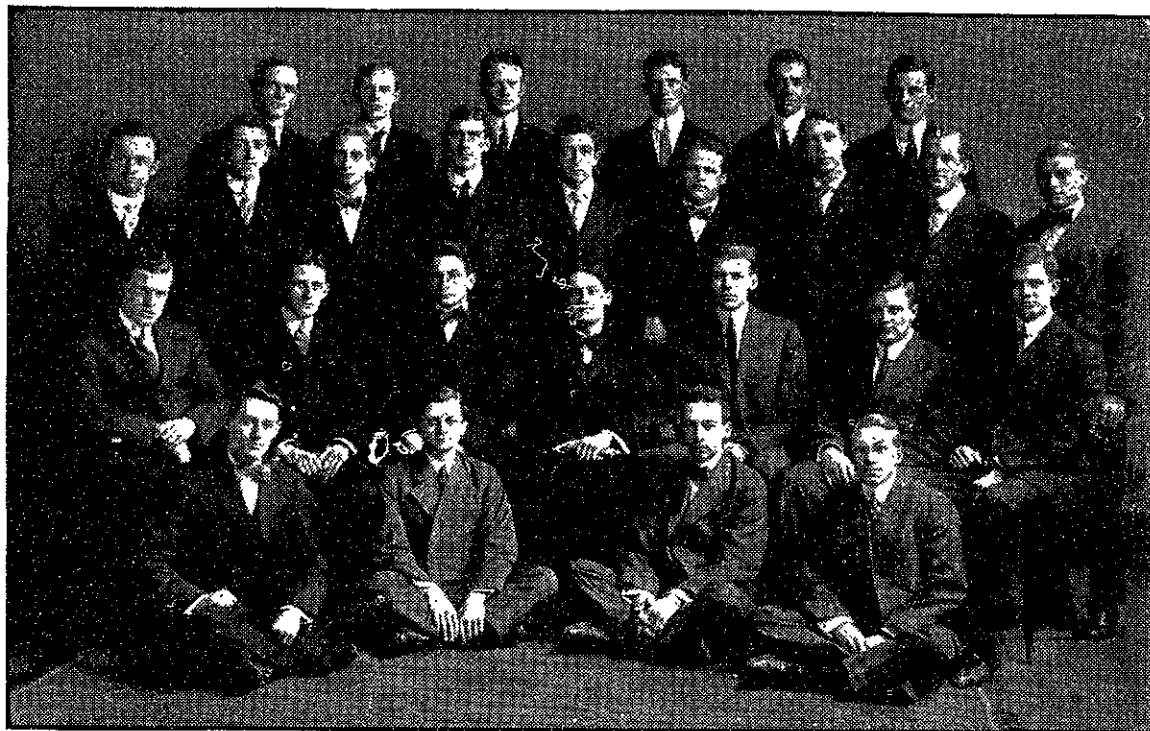


# THE TECH

VOL. XXVII. No. 86

BOSTON, MASS., TUESDAY, JUNE 9, 1908

PRICE FIVE CENTS



1908 CLASS DAY COMMITTEE.

Standing Back Row, Left to Right—B. S. Leslie, H. W. Blackburn, H. E. Allen, M. E. Allen, E. I. Williams, J. C. Reid. Front Row—C. A. Gibbons, Jr., L. B. Ellis, K. Vonnegut, W. J. Peirce, L. W. Thurlow, S. H. Daddow, J. Pope, L. B. Hedge, W. D. Ford. Seated Front Row—H. A. Rapelye, class president; L. Coffin, C. H. Boylston, second marshal; H. T. Gerrish, first marshal and chairman; F. H. McGuigan, third marshal; G. T. Glover, H. Webb. Front Row—R. E. Drake, H. S. Osborne, J. T. Tobin, T. W. Orr.

## TRIUMPHAL PROCESSION END OF SENIOR DINNER.

### NOTICES OF DEGREES THE GOAL.

Successful and Enthusiastic Banquet Held Thursday at The American House.

Senior Week was inaugurated with the annual Senior Banquet at the American House on Thursday, June 4th.

After the dinner the entire party, headed by some of the more enthusiastic members in and on a carriage marched up Boylston street to Rogers steps, where they received their graduation notices.

Samuel H. Daddow acted as toastmaster, and all the speeches were by members of the Senior class, none of the faculty being present. Prof. Breed, however, was located in the building, and was carried bodily into the hall, where, after some rousing cheers, he informed the class that the percentage of graduates this year was larger than it had ever been before.

The class president, Harry Rapelye, boomed the Alumni Association and urged every man to affiliate himself with it after graduation.

John Tobin, class secretary, read letters from the Technology Clubs of New York and Philadelphia, containing invitations to membership. He recommended keeping in close touch with the class secretary, in order to make the Review, with its new graduate editor, a decided success. Tobin was unanimously elected the 1908 class secretary.

Harry Webb, chairman of the Portfolio Committee, had "Retrospection" as his subject, and recalled the days when 1903 whitewashed their numerals on a fence, with a freshman's head for a mop.

The humorist of the evening turned out to be Arthur S. Douglass, who seemed to have no end of good stories.

The South was represented by Lafayette B. Hedge, who guaranteed that the Southern men would do their share to push 1908 to the fore.

"Transoceanic Humor" was treated by Basil L. Gimson who started his speech by saying that no such thing existed.

Horace E. Allen spoke on the future in store for the men graduating. Francis H. McGuigan gave one of his characteristic speeches.

First Marshal Herbert T. Gerrish ended the speaking of the evening with remarks on the class day observances.

## SENIORS URGED TO WORK UNSELFISHLY FOR OTHERS.

### THEME OF BACCALAUREATE SERMON.

Dr. Hodges Asks Class of 1908 to Exert Their Influence for Good.

That the aim of the members of the graduating class on entering the world should be the service of others and that they should use their influence always for the good of the community, was the theme of the baccalaureate sermon delivered by the Very Rev. Dr. George Hodges, Dean of the Episcopal Theological Seminary, Cambridge, in Trinity Church Sunday afternoon.

The class formed in line in Rogers and filed into the church just before the service.

Many of the relatives and friends of the class, together with Technology men from the lower classes occupied pews in the church.

The text was from St. John XVII, 19. "For their sakes I sacrifice myself." At the beginning of his discourse Dr. Hodges, outlining his idea of the purpose of education, said:

"I purpose to speak on the subject of influence; because you are all fitted to be influential, you are all resolved to be as influential as you can. I take for my particular theme the elements of influence. I mean the qualities which make men influential for good. It is my purpose to consider in several details that which we intend when we speak of sacrificing ourselves. For their sakes in order that we may be useful citizens of the kingdom of God, and effective contributors to the happiness and excellence of society, what sort of persons ought we to be?"

There are two primary things that concern influence, said Dr. Hodges. First come the determining elements, whether it is for good or for evil; and second the effective elements, which make it either strong or weak. The force of influence necessarily depends on the person exerting it.

That the world is looking to the college man of today to exert a great influence for good, and that it is depending on him to do the right thing, Dr. Hodges said he had no doubt.

Dr. Hodges said that something more than righteousness and holiness were essential to good influence. The man who is devoutly religious and thinks of

(Continued on page 2.)

## FANS FLUTTER AS 1908 HOLDS CLASSDAY RITES.

### NEW PANELS OF FRIEZE UNVEILED.

Rogers Building in Gala Trim for Seniors' Annual Function.

To the accompaniment of fluttering fans among the audience the class day exercises yesterday in Huntington Hall went off in fine style. More than two hundred members of the graduating class were present with their relatives and friends.

Rogers was in holiday attire. The staircase was decorated with evergreen and laurel. Huntington Hall even had lost its usual bare appearance and was resplendent with ferns and flowers.

The class day committee filed in and took their seats on the platform. They were enthusiastically applauded.

Class President, Harry A. Rapelye, opened with a few words of introduction. Following his remarks he unveiled four new sections of the Huntington Hall frieze, which were executed this year by the fifth year students in architecture under the direction of Mr. William Phelps Brown.

The frieze in Huntington Hall was the original idea of Professor Ware of the architectural department, and at his suggestion Paul Nefflen, a Nuremberg painter, was engaged to execute it. Later the frieze fell into disrepair and in 1898 was removed. The class of 1905 started in to restore some panels of the original frieze, the class of 1895 furnishing the requisite money as a decennial class gift.

This year two were added on each side of the center, making seven panels in all. Reading from left to right they represent Chemistry, Mining Engineering, Mechanical Engineering, the Institute seal, Civil Engineering, Architecture, and Electrical Engineering. The latter is the best of the septet.

Herbert T. Gerrish, the first marshal was then introduced as master of ceremonies. The historian and statistician, Kurt Vonnegut, compared the course at Tech to a game. He likened the faculty to one team and the students as their opponents. The object of the class was to score as much as possible by getting a large number across the goal line of graduation. With the class of 1908 229 scored, and received the degree of bachelor of science today. Twelve master's

(Continued on page 3.)

## COURSE COMBINES LIBERAL AND PROFESSIONAL STUDIES.

### DR. NOYES CONGRATULATES SENIORS.

Says Institute Training Has Fitted Them Well To Take Up Life Work.

Commencement exercises this afternoon marked the closing event of senior week of 1908. Abstracts of theses in eleven courses were read and the degrees were given out.

To three men were given the degree of doctor of philosophy, to twelve that of master of science, while two hundred and twenty-nine had conferred upon them the degree of bachelor of science.

The seniors who read abstracts of their theses together with the courses they represent are: Civil Engineering, Howard B. Luther; Mechanical Engineering, Langdon Collin; Mining Engineering, Bradford B. Holmes; Architecture, Edgar I. Williams; Chemistry, Rufus W. G. Wint; Electrical Engineering, Edmund L. Warren; Biology, Lawrence T. Walker; Physics, John H. Locke; Chemical Engineering, Clarence W. Clark; Sanitary Engineering, Donald H. Maxwell; Naval Architecture, Maurice E. Denny.

"It is now to be my privilege as the representative of the Corporation to confer in your presence the degree of the Institute upon the various candidates whom the Faculty has recommended as worthy of that high recognition.

"Permit me to describe to you somewhat more fully the characteristics of the four-year courses leading to the degree of Bachelor of Science, which form the main part of the work of this Institute. These courses are not such as are given in technical schools of the narrower type, where the aim is to train men for some specific industry and where much time is devoted to the imparting of technical knowledge and skill. From the foundation, the Institute has stood for the principle, now adopted or being adopted also by almost all other higher institutions of learning, that there be given a combination of a liberal education with such professional training as will fit the student for some important form of service to the community. The Institute, as well as certain other scientific schools, aims to accomplish this result by methods different from those commonly pursued by universities. Like the latter, the Institute requires that a considerable proportion of the student's work consist of the so-called humanistic studies,—of studies in English composition and literature, modern language, history, political science, and economics. On the university plan, however, these are completed in the college before the student begins his professional work, which is then carried on in a Graduate School; while it is the theory and practice of the Institute to cause these liberal and professional studies to be pursued simultaneously throughout nearly the whole period of study. In this way the student acquires from the start the earnestness and interest which the direct preparation for his life-work naturally incites in the mind of a young man, who can not thus early so well appreciate the important but less intangible results of general education; and, on the other hand, the general studies are continued and emphasized in their relation to the professional work throughout the whole course.

"In the second place, the Institute, far more than the academic college, lays stress upon scientific studies as an essential part of a liberal training. It has no sympathy with the idea that a man can be considered broadly educated, whatever his knowledge of the classics, or history, or literature, who is entirely ignorant of the chemical composition and properties of the materials he daily deals with; who knows nothing of the elementary principles of mechanics, heat, light, and electricity which are constantly involved in the daily experiences of modern life and in almost all industrial operations; who looks nightly into the heavens, or observes the forms of land or water, sees the seasons come and go, watches the tides rise and fall, without taking any

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## THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

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W. F. DOLKE 1908 *Managing Editor*  
D. C. McMURTRIE 1910 *Sporting Editor*  
H. W. HOOLE 1908  
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Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage.

Subscription - \$1.50 per year in advance.  
Single Copies 3 Cents.

Printed by Old Colony Press, Boston.

Tuesday, June 9, 1908.

Channing Turner 1908 will occupy the position of editor-in-chief of Volume XXVIII. Douglas C. McMurtree 1910 will be managing editor and Richard S. Bicknell 1910 business manager. Holman I. Pearl is secretary of the board. Merton W. Hopkins has been made circulation manager and A. W. Yearance his assistant. Richard R. Ranger has been promoted to the rank of associate editor. William O. Whitney, Harold M. Davis, and Harold L. Robinson have been appointed to the news staff. Henry W. Hoole 1908 and W. Fred Dolke, Jr., 1908 have resigned from the board.

### COMMUNICATION.

To the Editors of the Tech:  
It seems proper that some of the statements appearing in your article of May 5th on "The Tech Show" should receive attention from the Advisory Committee. Waiving the question of how much judgment was shown in the publication of an article written in such a spirit as that one was, there are very important considerations involved, for the reason that rather serious implications are made against various persons connected with the show. At the end of the fifth paragraph you say "it is alleged that Macomber mixed up the bank accounts in some unknown fashion," thus delaying the payment of the bills. The publication of any such insinuation which means either that Mr. Macomber was dishonest, or that he willfully and purposely mixed up the bank accounts for some reason, is an aspersion on the character of one of the most efficient managers the show ever had, and a man against whose honesty and squareness there has never been the slightest suspicion. In view of the fact that the shows under Mr. Macomber's and Mr. Dewey's management have been the two most successful shows ever given, the former both as a theatrical production and financially, and the latter as a finished performance, the criticisms in the article referred to must have very little weight. In regard to "fraternity politics" entering into the appointments last year by Mr. Macomber, the chairman of this committee wishes to state personally that Mr. Macomber, fearing that he might be criticised for appointing men from his own fraternity, consulted both Dean Burton and the Bursar, there being then no advisory committee, and both the gentlemen mentioned advised the appointments. With regard to the lack of harmony in the management the present year, it may be stated that the only case of disagreement which came up this year was brought to this committee and settled, since which time nothing of that nature has existed, except perhaps in someone's imagination. All the appointments made this year were approved by the advisory committee, and if mistakes were made the blame should be laid at our door. The selection of each appointee was gone into thoroughly, and the committee stands ready to take the responsibility for the appointments. So far as the delay in securing a theatre, etc., is concerned, the committee is authorized to make the statement that it was not the fault of the manager, but that the delay was caused by the uncertainty as to what action the faculty would take in setting aside certain dates for the performance. Of course the theatre could not be engaged until it was known on what dates the performances were to take place. The same is also true in regard to certain appointments, the scholarship and general standing of the student being looked into before the appointments could be made. It is always an easy matter to criticize existing conditions, but to those whose business it is to know, there is no good ground for criticisms in this case. For the Advisory Committee,  
F. H. RAND, Chairman.

## THE LAST WORD.

Very little good would come from any dispute over the statements in the above communication. However, in order to justify the position of The Tech in the matter alluded to it may be said that the article and editorial were published only after careful consideration and a gathering of facts, and its publication was advised or agreeably commented upon by a member of the advisory committee, a past general manager, the general manager of 1908, a former business manager, and several others interested in the show.

In regard to the "fifth paragraph," never for a moment did it occur to the editors of The Tech that this statement of McCready meant anything but possible carelessness on Mr. Macomber's part. No one who knew the man could say that he was anything but an interested and energetic worker in student enterprises, and a man whose integrity was above question.

We have received a communication from Mr. Macomber, a statement from a candidate for the show management, and a statement from Mr. McCready. They disagree on one or two points and would only arouse fresh discussion. For this and for other reasons they are not printed here.

### SENIORS URGED TO WORK.

(Continued from page 1.)  
nothing else than his religion has almost no influence for good. Practibility in the form of sympathy and helpfulness are needed.

In closing Dr. Hodges addressed the graduating class as follows:

"Members of the class of 1908, we want you to be influential persons. We greet you in the hope that you are going to reinforce the powers which make for betterment. We expect you to be useful citizens; that is what you are educated for, and any usefulness which is of large account includes the service of society. For our sakes you are to sanctify yourselves. By the determining elements of righteousness and holiness you are to make your influence good. By the effective elements of ability; of sympathy, or both together, you are to make your influence strong. To this high mission we bid you welcome in the name of God."

The regular evening prayer with Psalms for Whitsunday were conducted by Rev. R. Kinder. The music for the service was: "Hear Us, Thou that Broodest," "All Hail the Power of Jesus' Name," and "Onward Christian Soldiers," "Magnificat" by Stanford in B flat. Caesar Franck's Anthem, "Come Gracious Spirit, Heavenly Dove," with the Sullivan Anthem at offertory of "I will sing of thy power, O God."

### PLANS FOR NORTHFIELD.

Full information concerning the rates and trains for Northfield may be obtained from L. W. Brock, 458 Boylston street, or at the Y. M. C. A. headquarters in 5 Eng. B.

Special arrangements have been made by which summer school men may go up Friday night and return Monday morning.

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## ASSOCIATION OF PAST EDITORS OF THE TECH

### TO BECOME PERMANENT.

Plans Formulated at First Annual Dinner of Men on Former Boards.

Thirteen members of previous boards of The Tech were present at the annual Tech dinner at the Hotel Westminster last Friday evening. Channing Turner acted as toastmaster.

This year was the first time that invitations had been sent to alumni. Every man who had ever been connected with The Tech was communicated with. This innovation met with the distinct approval of the old timers. Over a hundred letters, many of which were very interesting, were received in answer, and met with hearty applause when read at the dinner.

An important outcome of the dinner was the formation of an association of "Tech" editors. The following organization committee was appointed: A. D. Little 1885, Prof. C. E. A. Winslow 1898, Isaac W. Litchfield 1885, and Channing Turner 1908. It is expected that the association will act as an advisory board, at the same time serving to keep the men in touch with one another.

The principal speakers were Mr. Litchfield and Prof. Winslow. Every alumnus present contributed with short talks full of humorous anecdotes of Tech life in their time.

Among those of previous boards present were: Walter B. Snow 1882, Arthur W. Walker 1882, F. Manton Wakefield, Richard C. Tolman 1903, Herbert W. Goddard 1904, Prof. Harry W. Tyler 1884, E. B. Bird 1891, S. G. D. Litch 1900, P. R. Brooks 1900, Morgan Barney 1900, A. M. Bemis 1900, Prof. A. Lawrence Rotch 1885, R. W. Parlin 1908.

### BROOKLINE MEN TO DINE.

Tomorrow evening the Technology Brookline High School Club will hold its annual dinner at the Lombardy Inn. After the dinner the members will go to the theatre.

### PROFESSOR SWAIN NAMED.

Chosen by President as Member of Inland Waterways Commission.

Professor George F. Swain, head of the civil engineering course was appointed Saturday by President Roosevelt as one of the eleven members of the inland waterways commission. He was recommended by Chief Forester Gifford Pinchot on account of his experience in collecting the water statistics for the last census, and his familiarity with forestry. Professor Swain is one of the three new men appointed to the commission at this time. The new members with him are Senator Allison and Representative Ransdell.

Frederick H. Newell, another member of the commission, is a Technology graduate. He holds the position of chief engineer in the U. S. Reclamation Service.

The commission as it now stands is made up as follows:

Representative T. E. Burton, chairman; Senators Allison of Iowa, Warner of Missouri, Newlands of Nevada and Bankhead of Alabama; Representatives Ransdell of Louisiana; Gifford Pinchot, forestry service; F. H. Newell, reclamation service; Herbert Knox Smith, chief of the bureau of corporations, department of commerce and labor; Dr. W. J. McGee, department of agriculture, and Prof. Swain.

### TECHNIQUE ART COMPETITION.

Anyone desiring to enter the 1910 Technique art competition should see the editor-in-chief, D. C. McMurtrie, before leaving for the summer.

### RECOGNITION FOR PROF. RICHARDS.

Dinner Tendered to him as Reward for Forty Years' Service.

In recognition of his forty years service at the Institute, Prof. Robert H. Richards was given a dinner at the University Club Saturday evening. He was presented with a large silver salver.

There were informal speeches by a number of the men present and letters of appreciation from his former students all over the world were read. Prof. Richards has just returned from the University of Missouri where he has been given the degree of L.L. D.

## GRAM CHOSEN TO LEAD TRACK TEAM FOR 1909.

### IS 220-YARD RECORD HOLDER.

He Has Been Prominent in Track Work for Two Years.

Carl William Gram 1909, was unanimously elected captain of the track team at a meeting of the team held at Notman's Studio after the annual picture had been taken. Gram has competed in all the meets for the last two seasons, and in the 220-yard dash has proved to be the best man ever developed at the Institute. He ran his event last year in 22 seconds flat, establishing the record for the New England Association.

At present Gram is president of the junior class. He was chairman of the junior prom committee and has held many other offices of importance throughout his career at the Institute.

### CABOT MEDALS AWARDED.

Burgess Darrow 1910 Leads List in Strength Test. Four other Awards.

Two freshmen, two sophomores, and one senior have been announced as the successful candidates for the Cabot medals.

Burgess Darrow 1910, comes first. He made the highest record in a strength test that has ever been made at the Institute. The other four medals were awarded to Edward Kloborg 1908, Harry Eleazer Lake 1911, Philip Gustave Laurson 1910, William Orr Whitney 1911.

The following contestants were regarded by the committee as worthy of honorable mention: Suren Bogdasarian 1911, Sidney Logan Day 1911, Marcus Aurelius Grossman 1911, Delos Garriott Haynes 1909, Arthur Baneroff Richardson 1911.

Those composing the committee on award of the Cabot medals were Dean Alfred E. Burton, Professors Allyne L. Merrill and Henry G. Pearson, and physical instructor Winfield C. Towne.

## COMPULSORY EXERCISE NEXT YEAR FOR 1912.

### REQUIREMENT FOR FRESHMEN.

Track Work Under Team Coach May be Substituted for Class Attendance.

Compulsory physical training will be required of next year's freshman class at the Massachusetts Institute of Technology. Five lectures will be given during the first five weeks on the importance to Institute students of physical training, bodily health, matters of personal hygiene, and gymnasium work. The lecturers will be Prof. Sedgwick, Dr. White and probably Dr. Sargent of Harvard. A physical examination will be given each student during these first weeks the same as was done this year.

During the remaining ten weeks of the first term and the first eight weeks of the second term, regular classes in gymnasium work will be organized with the same arrangements as to attendance and marks that prevail in other subjects at the Institute.

A committee to attend to the matter of excuses will be composed of three ex-officio members, the Dean, the physical director, and one medical adviser, and two appointed members of the faculty.

The grounds for excuse from the work will be: Age, exceeding twenty-one (except in special cases), regular athletic work under the coach engaged by the Graduate Advisory Council on Athletics, living at distances so great that the work would be an actual burden, and the showing of especially good physical condition and of regular habits of hygiene and exercise.

### TECH SHOW APPOINTMENTS COMPLETE.

Additional appointments on the staff of the Tech Show management have been announced. The men selected for the various positions are: Richard F. Goodwin, Jr., 1910, stage manager; Carl J. Luttinger, 1910, business manager; Dudley Clapp 1910, advertising manager. Garnett A. Joslin 1909, is general manager for next year.

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## COURSE COMBINES STUDIES.

(Continued from page 1.)

interest in their explanation. The Institute holds that a knowledge of physical and natural science, though not the only essential element, is yet the chief factor in culture and in life.

"Thirdly, the Institute considers the acquirement of knowledge of any kind whatever, whether literary or scientific or professional, for less important than the training of the mind in scientific thinking and scientific method. It aims not only to impart a knowledge of principles, but also to develop the faculties so that its graduates may be fitted to cope with and solve the great engineering and scientific problems of the day. To this end much of its instruction consists in this very thing—the solving of problems in the class room, laboratory, and designing room. The theses, some of which have been presented in abstract to you today, are only larger examples of this side of our work, which in the form of minor problems extends throughout the whole four years. And correspondingly we determine the standing of a student very largely by his term work rather than his success in a final examination, which too often depends on his ability to get up the subject by cramming."

Dr. Noyes soon after turned to the graduating class and addressed them exclusively.

"I desire first of all to extend to you the hearty congratulations of the Corporation and Faculty on the accomplishment of the result for which you have successfully striven. You are to be congratulated not so much because the diploma which I shall soon have the pleasure of presenting to each of you certifies to the completion of a prescribed course of study and to the acquirement of much liberal and professional knowledge, as because it implies the possession and development of certain qualities of mind and character which are fundamentally essential to the highest success in life—a willingness to subordinate the pursuit of pleasure to the fulfillment of duties, a determination to accomplish in spite of difficulties whatever has been deliberately undertaken, an integrity of mind which will not contentedly accept as final imperfect or inexact results. The award to you of the degree implies, too, that you have formed sound habits of work that can not fail to be of prime importance to you in your subsequent careers; for while the Institute curriculum is not so exacting as to preclude a reasonable participation in the social and athletic affairs of student life, yet it demands that time and effort be economically expended. There is no time to be wasted in idleness, nor opportunity for that undue predominance of the physical and social activities over the intellectual which characterizes the student-life of many colleges. It is not now necessary for you to close a collegiate period of idleness, or frivolity, or dissipation with good resolutions of improvement for the future and with a determination now taken for the first time to pursue your work with seriousness of purpose and with the aim of high accomplishment. You already have taken these resolutions and developed the qualities necessary for their fulfillment; else you would not be here today. It is only necessary for you to continue in the way that you have thus far pursued."

Dr. Noyes outlined the idea of service that each man should go out into the world with. He concluded by saying:

"The question for each of you is, therefore, how can you render the greatest service? If you follow this as your guiding principle, you need have no fear of failure in our life-work, even if it be judged from such other stand-points as the attainment of happiness, or of public recognition, or of personal influence.

The list of men who were awarded the degree of Bachelor of Science follows:

Civil Engineering—Laurence H. Allen, Maurice E. Allen, Monroe Ames, William E. Barton, George M. Belcher, Clifford H. Boylston, Arthur E. Bremer, Claude Osgood Brown, Mortimer P. Burroughs, Frederick A. Cole, Chester S. Colson, Hardy Cross, A. B., Henry H. Damon, A. B., Allston Dana, A. B., Stephen L. Davidson, Arnold T. Dean, Gregory M. Dexter, Gustav A. Dubois, Raymond W. Ferris, Herbert T. Gerrish, Wheaton I. Griffin, Harry W. Griswood, Philip J. Hale, Julian H. H. Harwood, Robert D. Hennen, Howard B. Luther, Stephen C. Lyon, Francis H. McGuigan, Jr., William D. Milne, Archer C. Nichols, Thomas W. Orr, Carlton D. Putnam, Read I. Ripley, Henry J. Ruggles, George Schobinger, A. B., Charles H. Shapleigh, Edward R. Smith, Henry V. Spurr, John T. Tobin, Ernest J. H. Waters, Mason T. Whiting, A. B., George D. Whittle, B. S.

Mechanical Engineering—Horace E. Allen, Robert C. Angell, Robert A. Angus,

Carl H. Bangs, John S. Barnes, Frank K. Belcher, Henry W. Blackburn, Francis M. Bond, A. B., Kenneth C. Boush, John C. Brooks, Philip C. Brown, A. B., James M. Burch, Jr., Walter E. Caldwell, Hendley R. Calloway, Harold L. Carter, Burton W. Cary, Leslie P. Cassine, Dana W. Clark, Lawrence A. Clark, Clifford N. Cochran, Langdon Coffin, Abraham S. Cohen, Richard C. Collins, Samuel H. Daddow, A. B., James H. Denny, Herbert S. Eames, Charles A. Edmonds, Harold C. Faxon, Winthrop D. Ford, Ferdinand J. Friedman, James T. Gallagher, Basil L. Gimson, George T. Glover, Irving M. Guilford, James E. Hale, Carl A. Hall, Edwin E. Hall, Carl E. Hanson, A. B., B. S., Samuel F. Hatch, William R. Hellman, Clarence L. Hussey, Stiles F. Kedy, Karl R. Kennison, A. B., George C. Lees, Bernard S. Leslie, Lee Loeb, A. B., Arthur A. Longley, Harry C. Lord, William J. Peirce, Paul R. Powell, Harry A. Rapelye, John R. Reyburn, A. B., Miles Sampson, Joseph B. Sando, Albert T. Scannell, Clarence H. Spiehler, Charles M. Steese, James M. Talbot, A. B., Joseph W. Wattles, 3d, Rudolph E. Wetter, Masanae Yendo.

Mining Engineering—Walter J. E. Barcus, Ignacio Y. Bonillas, Alexander H. Bradford, Kenneth G. Chipman, Paul R. Fanning, Victor M. Frey, A. B., Charles A. Gibbons, Jr., Nelson N. Hammond, Paul Heimer, Bradford B. Holmes, Clarence R. Lamont, Jesse W. Maxwell, Desaix B. Myers, B. S., Alec N. Penny, Harry J. Sweeney, A. B., Tsok Kai Tse, Ching Yu Wen.

Architecture—Mabel K. Babcock, A. B., Ralph J. Batchelder, Harry H. Bentley, Chalmers S. Clapp, Russell G. Crane, William F. Dolke, Jr., Howard S. Hazen, Jr., B. S., Rinker Kibbey, Hugo F. Kuehne, C. E., Clifford H. Preston, A. B., Frank J. Robinson, Aram Terrosian, Kurt Vonnegut, Edgar I. Williams, Conrad Youngerman.

Chemistry—John S. Coye, B. S., Raymond E. Drake, Paul A. Esten, Ernest G. Genoud, Arthur T. Hinkley, Warren W. Karnan, John A. Kydd, Charles L. Lufkin, Emerson F. Lyford, James McGowan, Jr., Everett H. Newhall, William C. Taylor, Leland E. Wemple, Rufus W. G. Wint, A. B.

Electrical Engineering—Vigo E. Bird, Winfield E. Booth, Donald Bowman, Harry W. Brown, S. B., Benjamin Bullard, Harry L. Burgess, Rae W. Davis, A. B., Jacob A. Fottler, Floyd M. Fuller, S. B., John C. Gaylord, B. S., Lynn S. Goodman, Ph. B., Lee Hagood, B. S., Joseph W. L. Hale, Mathew C. Hayes, B. S., Lafayette B. Hedge, Oliver S. Jennings, A. B., Ernest E. Kilburn, Charles C. Kinsman, Frederick W. Lyle, Ralph E. Manning, Utar J. Nicholas, Harold S. Osborne, Harry C. Patten, Alfred G. Place, Edward A. Plummer, Walter E. Poor, Joseph G. Reid, A. B., Harry F. Richardson, Edgar P. Slack, Warren D. Spengler, George E. Tolman, A. B., Edmund L. Warren, A. B.

Biology—Scott MacNutt, A. B., Edward I. Tulley.

Physics—John H. Locke, Reno E. Schirmer.

Chemical Engineering—Alfred B. Babcock, Howard B. Batsford, Harry S. Chandler, Clarence W. Clark, Chesney H. Criswell, A. B., Rufus C. Folsom, A. B., Arthur L. Gardner, John Gianella, Jr., Harold P. Gurney, Maurice T. Jones, Jr., Eleazer Myers, Henry G. Nicholas, Francisco D. Reyes, Leavitt W. Thurlow, William H. Toppin.

Sanitary—William C. Folsom, Donald H. Maxwell.

Naval Architecture—Maurice E. Donny, Edmund F. Heard, Joseph Pope, Carol D. Steele, Loyd H. Sutton.

## CONCERT BY MUSICAL CLUBS.

Saturday evening the combined Glee, Banjo and Mandolin Clubs gave a concert to the seniors in Huntington Hall. An excellent program was furnished, and the members performed exceptionally well, each number being encored several times. The "College Medley," by the Banjo Club, and the "Stein Song," by the Glee Club, were excellent.

## INVITATION TO ALL GRADUATES.

Percy E. Tillson, secretary of the Technology Club of Philadelphia, has extended a cordial invitation to all undergraduates who may be in the vicinity of the Quaker city, to a Field Day and outing of the club. The celebration will be held on the twentieth of June at the Woodbury Country Club, Woodbury, N. J.

## SCHOLARSHIP TO TECH MAN.

The University Council at Columbia University, New York, has just awarded a scholarship of the value of \$150 to Mr. Barton Warren Kendall 1906, a resident of Gardner, Mass. The selection of the Columbia University Scholarships, of which 32 are awarded each year, is made from among a large number of graduates of the best colleges and universities in the country.

## PROFESSOR CLIFFORD HONORED.

At the recent annual meeting of the American Institute of Electrical Engineers it was announced that Prof. Harry E. Clifford had been elected a member of the Board of Managers for three years. The new president is Mr. L. A. Ferguson of Chicago, a graduate of Course VI in the class of 1888.



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#### 1908 HOLDS CLASS DAY RITES.

(Continued from page 1.)

degrees will be given and three will receive the degree of doctor of philosophy. The class started the course with 298 members, but only 36 per cent. of those who are to graduate tomorrow are from the original number. The others come from other colleges or from former classes at the Institute. The average age of the class is 22 years 10 months and 4 days. The oldest is 32 and the youngest 20. The tallest man measured 6 feet 4 inches, and the shortest man is 5 feet 4 inches tall. The average is 5 feet 10 2-5 inches. The average weight is 149 pounds. Half the men admit they drink occasionally, and 53 per cent. smoke. The feminine members were not questioned. Forty-two per cent. of the class wear glasses, which, said the statistician, testifies to their hard-working propensities.

At the request of the Institute authorities, information was gathered concerning the number of men who work during the summer. In the vacation following the first year, 24 per cent. worked for 10 weeks; in the second, 50 per cent. worked and in the third year 51 per cent. were industrious.

The class prophecy shared honors with the president's introduction as the best exercise of the day. Basil L. Gimson was the seer selected by the class. He started his talk in a most original way, being transported a decade hence by inhaling the fumes of a mystic substance in the chemical laboratory.

Francis H. McGuigan, as presentation orator, after relating the characteristics of various members of the class, presented them with appropriate gifts. The star of these was a black pickaninny carried on the stage in a large box. This lady was given to George Glover to make up for the trips to Revere Beach that he would lose upon his departure from Boston.

The class oration was delivered by Joseph G. Reid. He talked on the duty of the engineer in society and civic life. He called attention to the narrowness of student life at the Institute on account of the great pressure of work and the lack of a comprehensive social relationship. He pointed out the absolute need of versatility to a successful man. The recreation or avocation chosen, if it were politics or civic activity, would bring men into touch with other men,

and would afford a means of meeting men in things they were interested in. The class gift to the Institute was presented by George T. Glover. He said:—

"The class of 1908 has always taken the greatest interest in Institute affairs and now that we are leaving the sphere in which we once had an active part, it is our desire to leave behind something which may prove of service to those who come after us and which may be a reminder of the life of our class of 'Technology.'"

"A few months ago a movement was started to secure a new union for the use of the students. The plan came from a growing appreciation of the necessity for more social intercourse between the fellows here. Our class has desired to record its entire sympathy with this plan and help it along in any way possible."

"The privilege has fallen to our class of taking the first step toward the realization of this project. We are therefore leaving as our gift for the lounging room of the new union a large, round table and chairs. We hope this will be in some slight way expressive of the interest in the welfare of Technology taken by the class of 1908."

After the exercises were over the members of the class and their guests went down on the lawn between Rogers and Walker to partake of the class spread.

The class day committee, which occupied the stage and had charge of all the arrangements for the day was made up as follows:—

Horace Ethan Allen, Maurice Everett Allen, Henry Washington Blackburn, Clifford Hall Boylston, Langdon Coffin, Samuel Harries Daddow, Raymond Edward Drake, Leslie Burton Ellis, Winthrop Drew Ford, Herbert Thurston Gerish, Charles Alphonsus Gibbons, Jr., George Thumel Glover, Lafayette Boyd Hedge, Bernard Shepard Leslie, Francis Harrington McGuigan, Jr., Thomas Whitley Orr, Harold Smith Osborne, William Joseph Pierce, Joseph Pope, Harry Andrew Rapelye, Joseph Gilman Reid, Leavitt Wearre Thurlow, John Theodore Tobin, Kurt Vonnegut, Harry Webb, Edgar Irving Williams.

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#### CLOSE ELECTIONS IN CLEOFAN.

Miss Mabel K. Babcock Selected to Lead Society Next Year.

After a rather stormy meeting Friday, May 22, Miss Mabel K. Babcock 1908, was elected president of the Cleofan for the coming school year by a vote on the third ballot of 6 to 5 over Miss Florence H. Luscomb 1909. Miss Helen McG. Longyear 1909, was elected vice-president and Miss Rebecca H. Thompson 1909, and Miss Elizabeth B. Babcock 1909, were chosen for the offices of secretary and treasurer, respectively.

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